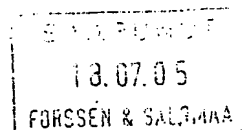


## PATENT COOPERATION TREATY

## PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY  
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)



Applicant's or agent's file reference <b>P1858PC00</b>	<b>FOR FURTHER ACTION</b> See Form PCT/IPEA/416	
International application No. <b>PCT/FI2004/000233</b>	International filing date (day/month/year) <b>15.04.2004</b>	Priority date (day/month/year) <b>16.04.2003</b>
International Patent Classification (IPC) or national classification and IPC <b>B65D 85/10, B65D 5/66</b>		
Applicant <b>M-REAL OYJ et al</b>		

<p>1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>3</u> sheets, including this cover sheet.</p> <p>3. This report is also accompanied by ANNEXES, comprising:</p> <p>a. <input checked="" type="checkbox"/> (sent to the applicant and to the International Bureau) a total of <u>2</u> sheets, as follows:</p> <p><input type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).</p> <p><input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.</p> <p>b. <input type="checkbox"/> (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).</p>	
<p>4. This report contains indications relating to the following items:</p> <p><input checked="" type="checkbox"/> Box No. I Basis of the report</p> <p><input type="checkbox"/> Box No. II Priority</p> <p><input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p><input type="checkbox"/> Box No. IV Lack of unity of invention</p> <p><input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p><input type="checkbox"/> Box No. VI Certain documents cited</p> <p><input type="checkbox"/> Box No. VII Certain defects in the international application</p> <p><input type="checkbox"/> Box No. VIII Certain observations on the international application</p>	

Date of submission of the demand <b>29.10.2004</b>	Date of completion of this report <b>11.07.2005</b>
Name and mailing address of the IPEA/SE Patent- och registreringsverket Box 5055 S-102 42 STOCKHOLM Facsimile No. +46 8 667 72 88	Authorized officer  <b>William Helin/MP</b> Telephone No. +46 8 782 25 00

Form PCT/IPEA/409 (cover sheet) (April 2005)

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/FI2004/000233

Box No. I	Basis of the report
1.	<p>With regard to the language, this report is based on:</p> <p><input type="checkbox"/> the international application in the language in which it was filed</p> <p><input type="checkbox"/> a translation of the international application into _____, which is the language of a translation furnished for the purposes of:</p> <p><input type="checkbox"/> international search (Rules 12.3(a) and 23.1(b))</p> <p><input type="checkbox"/> publication of the international application (Rule 12.4(a))</p> <p><input type="checkbox"/> international preliminary examination (Rules 55.2(a) and/or 55.3(a))</p> <p>2. With regard to the elements of the international application, this report is based on <i>(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)</i>:</p> <p><input type="checkbox"/> the international application as originally filed/furnished</p> <p><input checked="" type="checkbox"/> the description:</p> <p>pages <u>1 - 14</u> as originally filed/furnished</p> <p>pages* _____ received by this Authority on _____</p> <p>pages* _____ received by this Authority on _____</p> <p><input checked="" type="checkbox"/> the claims:</p> <p>pages _____ as originally filed/furnished</p> <p>pages* _____ as amended (together with any statement) under Article 19</p> <p>pages* <u>15 - 16</u> received by this Authority on <u>31.12.2004</u></p> <p>pages* _____ received by this Authority on _____</p> <p><input checked="" type="checkbox"/> the drawings:</p> <p>pages <u>1 - 12</u> as originally filed/furnished</p> <p>pages* _____ received by this Authority on _____</p> <p>pages* _____ received by this Authority on _____</p> <p><input type="checkbox"/> a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.</p> <p>3. <input type="checkbox"/> The amendments have resulted in the cancellation of:</p> <p><input type="checkbox"/> the description, pages _____</p> <p><input type="checkbox"/> the claims, Nos. _____</p> <p><input type="checkbox"/> the drawings, sheets/figs _____</p> <p><input type="checkbox"/> the sequence listing (<i>specify</i>): _____</p> <p><input type="checkbox"/> any table(s) related to the sequence listing (<i>specify</i>): _____</p> <p>4. <input type="checkbox"/> This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).</p> <p><input type="checkbox"/> the description, pages _____</p> <p><input type="checkbox"/> the claims, Nos. _____</p> <p><input type="checkbox"/> the drawings, sheets/figs _____</p> <p><input type="checkbox"/> the sequence listing (<i>specify</i>): _____</p> <p><input type="checkbox"/> any table(s) related to the sequence listing (<i>specify</i>): _____</p>

\* If item 4 applies, some or all of those sheets may be marked "superseded."

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/FI2004/000233

**Box No. V** Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

## 1. Statement

Novelty (N)	Claims	<u>1-10</u>	YES
	Claims		NO
Inventive step (IS)	Claims	<u>1-10</u>	YES
	Claims		NO
Industrial applicability (IA)	Claims	<u>1-10</u>	YES
	Claims		NO

## 2. Citations and explanations (Rule 70.7)

The invention aims at improving the rigidity of hinged-lid boxes.

Documents cited in the International Search Report:

FI63906 C  
US6199688 B1  
GB2106869 A  
US5964345 A1  
US5678690 A1  
US5462223 A1  
US4487596 A1  
GB2267272 A

The invention defined in claims 1-10 is not disclosed by any of these documents. Improved rigidity of the box is obtained by the use of two blanks or more, which enables employment of a separate material for the collar part. Further, the collar part is attached by glue lines which horizontally cross the whole blank of the collar.

The cited prior art does not give any indication that would lead a person skilled in the art to the claimed method for manufacture of hinged-lid boxes. Therefore, the claimed invention is not obvious to a person skilled in the art.

Accordingly, the invention defined in claims 1-10 is novel and is considered to involve an inventive step. The invention is industrially applicable.

## Amended claims

1. A method for the manufacture of a hinge-lid box, **characterized** in, that the method comprises steps wherein the collar is glued to the packet portion of the hinge-lid box, the hinge-lid box comprising two blanks or more than two blanks, the other being the blank for the collar, by applying the glue as horizontal uniform glue lines on the blank of the collar and/or horizontally on the respective area of the blank of the box part, which the collar will be attached to, the glue lines being applied so that at least one glue line horizontally crosses the whole blank of the collar, and the number of horizontal glue lines is at least two.
2. A method according to claim 1 for the manufacture of a hinge-lid box, **characterized** in, that the number of glue lines is at least three.
3. A method according to claim 1 or 2, **characterized** in, that at least one glue line crosses horizontally the lower part of the collar blank and the geometry of the glued area is line or strip shape.
4. A method according to any one of claims 1 - 3, **characterized** in, that the glue lines form a uniform surface covering the whole area of the collar blank, which remains covered in the finished box.
5. A method according to any one of claims 1 - 4, **characterized** in, that the collar is printed and/or coated.
6. A method for gluing of the collar to the box portion of a hinge-lid box, **characterized** in, that the method comprises steps wherein the glue is applied as horizontal uniform glue lines on a blank of the collar and/or horizontally on the respective area of the blank of the box part, which the collar will be attached to, the hinge-lid box comprising two blanks and the

other being the blank for the collar, or more than two blanks, the glue lines being applied so that at least one glue line horizontally crosses the whole blank of the collar and the number of horizontal glue lines is at least two.

- 5        7. A method according to claim 6 for gluing of the collar to the packet  
         portion of the hinge-lid box, **characterized** in, that the number of glue  
         lines is at least three.
- 10       8. A method according to claim 6 or 7, **characterized** in, that at least one  
         glue line crosses horizontally the lower part of the collar blank and the  
         geometry of the glued area is line or strip shape.
- 15       9. A method according to any one of claims 6 - 8, **characterized** in, that the  
         glue lines form a uniform surface covering the whole area of the collar  
         blank, which remains covered in the finished box.
10. A method according to any one of claims 6 - 9, **characterized** in, that the  
     collar is printed and/or coated.